# SOUTHEAST COMMUNITY COLLEGE
# TRANSPORTATION DIVISION
# JOHN DEERE CONSTRUCTION & FORESTRY EQUIPMENT TECH
# COURSE SYLLABUS
# January 25, 2023

## I. CATALOG DESCRIPTION

Course Number: JDCE1110
Course Title John Deere C&F Orientation and Fundamentals
Prerequisite(s): None
Co-requisite(s): None

Catalog Description: This course introduces the John Deere construction and forestry equipment product line. Recognize machines and components by model and product identification number. An introduction to John Deere Service Advisor and Parts Advisor. John Deere service department policy and procedures are discussed as well as technician responsibilities related to product warranty, shop tickets, work orders and time management skills. This course includes safe machine operation, repair shop safety practices, understanding caution and warning labels, handling of hazardous materials and material safety data sheets. Also, training for forklift operation, lifting and rigging. Fundamentals include the proper use and care of power and hand tools, twist drills, threading taps and dies, screw extractors, thread restoration and precision measuring equipment such as micrometers and dial indicators. Proper threaded fastener identification as well as hose, tubing, fittings and connector identification.

Credit Hours: 2.5
Class Hours: 15
Lab Hours: 68
Total Contact Hours: 83

## II. COURSE OBJECTIVES: *Course will:*

- **A.** Provide training and hands on experience with John Deere Service Advisor and Parts Advisor.
- **B.** Explain the importance of time management and how to use on-the-job time safely, productively and efficiently.
- **C.** Explain how to Identify Deere construction and forestry equipment and components by model number and product identification number.
- **D.** Explain SCC policies and John Deere dealership service department policies and procedures.
- **E.** Explain repair shop safety practices, Safety Data Sheets and the Employees Right-to-Understand.
- **F.** Explain how to identify hose, pipe, tubing, fitting and connectors by design and size.
- **G.** Explain how to identify threaded fasteners by type, size and grade.
- **H.** Provide training and hands on experience with metric and English precision measuring equipment.
- **I.** Explain the proper use and care of service repair shop power and hand tools.

**J.** Provide the opportunity to use tools, taps, dies, drills and other equipment to complete hands on lab projects.
**K.** Provide forklift operator training.

## III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

**A. STUDENT LEARNING OUTCOMES:** *Student will be able to:*

1. Open Service Advisor, navigate and utilize the manuals section, materials and resources.
2. Use Parts Advisor for finding John Deere part numbers, utilize search methods and illustrations.
3. Use time management skills to maintain performance and productivity.
4. Identify Deere construction and forestry equipment models and machine components by model number and product identification number.
5. Perform tasks and procedures for work orders, shop tickets, time cards and warranty as required by a technician.
6. Safely work in heavy equipment repair shop environment.
7. Obtain and understand Safety Data Sheets and explain the importance of wearing the proper personal protective equipment.
8. Correctly identify threaded fasteners, hose, tubing, pipe, fittings and connectors.
9. Demonstrate skills necessary to maintain and safely use hand and power tools.
10. Accurately make measurements using english and metric precision measuring equipment such as micrometers and dial indicators.
11. Safely use and maintain twist drills and boring equipment.
12. Use fastener threading taps and dies.
13. Repair and restore damaged fastener threads.
14. Operate forklifts and lifting equipment.

**B. GENERAL EDUCATION LEARNING OUTCOME:**
**GELO 3: Critical Thinking & Problem Solving**

1. Synthesize information to arrive at reasoned solutions to problems.
2. Acquire and integrate knowledge and construct relationships across disciplines.

## IV. CONTENT/TOPICAL OUTLINE

**A.** Orientation of John Deere construction and forestry equipment
**B.** Product identification number plate interpretation
**C.** Introduction to Service Advisor and Parts Advisor
**D.** Time management skills
**E.** John Deere service department policies and procedures
**F.** Machine operation and repair shop safety
**G.** Fork lift operator training
**H.** Hazardous materials, personal protective equipment and safety
**I.** Threaded fasteners, hose, pipe, tubing, connectors and fittings
**J.** Use and care of power and hand tools
**K.** Precision measuring equipment
**L.** Hand tool lab projects

## V. INSTRUCTIONAL MATERIALS

**Required text(s):** Service Advisor (made available in the classroom)
FOS Shop Tools
FOS Fasteners

Coaching the Forklift Operator
FOS Hoses Tubing & Connectors

**Other material(s):** Required tool set, safety glasses (regulation Z87), leather shoes, John Deere uniform, Colored pencils, notebook, writing instruments, calculator

## VI. METHODS OF PRESENTATION/INSTRUCTION

**A. Methods of presentation typically include a combination of the following:**

1. Small and large group discussion
2. Video presentations
3. Demonstrations
4. Project boards
5. Flip charts
6. Handouts
7. Observations
8. Field trips

## VII. METHODS OF EVALUATION

**A. Methods of evaluation typically include a combination of the following:**

1. Notebook (if required)
2. Quizzes
3. Tests
4. Lab Grades
5. Reflection assignments

Grading will follow the SCC Standard Grade Scale Policy. See **Course Information Document** for specific details on how the course grades are calculated.

## VIII. SPECIFIC COURSE REQUIREMENTS:

**A.** Students must complete all tests, projects, assignments, and notebook (if required).
**B.** Students must earn a final grade of 70% (2.0) or higher.
**C.** Program safety rules will be followed. See the **Course Information Document** for any additional safety rules established by the instructor.
**D.** Safety belts will be worn at all times, on or in any motorized vehicle, if equipped.
**E.** Attendance and participation. See **Course Information Document** for attendance and participation policy.